



PATENT ABSTRACTS OF JAPAN

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YOSHIDA TAKESHI**(54) EXHAUST EMISSION CONTROL DEVICE****(57) Abstract:**

PROBLEM TO BE SOLVED: To maintain a purifying rate in a low temperature area high likewise as in a conventional way and effectively utilize HC for the reduction of NO_x even if a rich spike has been input shallow.

SOLUTION: In an exhaust emission control device comprising a three-way catalyst 2 and an NO_x storage reduction type catalyst 3 arranged upstream and downstream respectively, in the case where exhaust emission under the condition that a lean atmosphere whose mole ratio of oxidized components to the reduced components in the

exhaust emission in over 14.6 and a rich atmosphere whose mole ratio of the oxidized components are alternately repeated flows into the catalyst 2, the time while the catalyst 2 holds is limited to one second or less. In this case, this time is a from the time point when the atmosphere of the exhaust emission becomes stoichiometric atmosphere after passing through the catalyst 2 becomes stoichiometric atmosphere from a rich atmosphere until it becomes the lean atmosphere of 50% of the maximum lean atmosphere. The oxidation of HC at the time of rich spike by the catalyst 2 can be controlled, leading to the effective utilization of the reduction of NO_x.

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